

CLAIMS

1. A device for controlling the specific absorption rate of mass-produced radiant objects, characterized in
5 that it comprises at least one sensor for measuring a power radiated by an object situated at the level of said zone and at least one processing unit which analyzes the power thus measured, the sensor comprising a waveguide exhibiting an opening disposed opposite the
10 test zone and at least one measurement probe disposed inside said waveguide.
2. The device as claimed in claim 1, characterized in that it comprises means for conveying the objects up to
15 the test zone.
3. The device as claimed in one of the preceding claims, characterized in that the sensor furthermore comprises a phantom in a material having dielectric
20 properties similar to those of biological tissues, and in which the waveguide is immersed.
4. The device as claimed in one of the preceding claims, characterized in that the phantom is of
25 cylindrical or more complex shape.
5. The device as claimed in one of the preceding claims, characterized in that the waveguide is of rectangular or circular or more complex cross section.
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6. The device as claimed in one of the preceding claims, characterized in that the waveguide is a horn.
7. The device as claimed in one of the preceding
35 claims, characterized in that it comprises at least two orthogonal probes which run inside the waveguide.

8. The device as claimed in claim 7, characterized in that the waveguide comprises two pairs of orthogonal probes for deviometric processing.

5 9. The device as claimed in claim 8, characterized in that the two pairs of probes are linked to deviometry means.

10 10. The device as claimed in claim 9, characterized in that the processing unit instructs the displaying on a screen of a curve whose amplitude and extent are dependent on the radiated power measured and whose position is dependent on the deviometry measurements.

15 11. The device as claimed in one of the preceding claims, characterized in that it comprises an array of several sensors exhibiting various orientations.

20 12. The device as claimed in one of the preceding claims, characterized in that, in the case where the radiant objects are cellular communication terminals, it comprises upstream of the test zone a base station simulator.

25 13. The device as claimed in one of the preceding claims, characterized in that it comprises upstream of the sensor or sensors guiding means able to impose a certain positioning on the radiant objects.

30 14. The device as claimed in one of the preceding claims, characterized in that the processing unit stores matches between values of integrated specific absorption rates and values of electrical powers, these matches being determined beforehand by calibration.

35 15. The device as claimed in one of the preceding claims, characterized in that it comprises a shielded and anechoic container containing a sensor or an array of waveguide sensors and measurement probes.